EXPRESS MAIL NO. EV336618819US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants

Robert Finney et al.

Filed

November 13, 2003

For

LPAAT-β INHIBITORS AND USES THEREOF

Docket No.

: 200144.405D1

Date

: November 13, 2003

Mail Stop Patent Applications Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached Forms PTO-1449. This application is a divisional and relies, under 35 U.S.C. § 120, on the earlier filing date of prior Application No. 10/236,084, filed September 6, 2002; which is a continuation of Application No. 09/984,888, filed October 31, 2001. The references listed on the attached Forms PTO-1449 were submitted to and/or cited by the Patent and Trademark Office in these prior applications and, therefore, are not required to be provided in this application. If the Examiner wishes, copies will be provided upon request. However, reference BH (WO 96/04281) cited on page 2 of the attached Forms PTO-1449, was not previously made of record and copy is enclosed herewith.

Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC

Richard G. Sharkey, Ph.D

Registration No. 32,629

RGS:ljt

Enclosures:

Forms PTO-1449 (6 Sheets) Cited Reference (1)

701 Fifth Avenue, Suite 6300 Seattle, Washington 98104-7092

Phone: (206) 622-4900 Fax: (206) 682-6031

\431765

FORM PTO-144 (REV.7-80)	9		DEPARTMENT OF	Sheet 1 of 6 ATTY. DOCKET NO. APPLICATION NO. 200144.405D1 APPLICANTS					<u>. 01 0</u>	
INF	ORM	ATION DISCLOSU	RE STATEM	ENT	Robert E. Finney et al.					
2112		(Use several sheets if nec		FILING DATE GROUP ART UNIT October 13, 2003			JP ART UNIT	_		
			U.S.	. PATENT 1	DOCUMENTS		1		•	
*EXAMINER INITIAL	DOCUMENT NUMBER DATE NAME CLASS SUBCLASS							FILING IF APPRO		
	AA	5,702,717	12/30/97	Cha et al.		424		425		
	AB	6,288,288	09/11/01	Henkin et	al.	544		197		
	AC									
	AD									
	AE									
	AF									
	AG									
	АН									
	ΑI				4000000					
	AJ								<u></u>	
			FORE	IGN PATE	NT DOCUMENTS					
		DOCUMENT NUMBER	DATE		COUNTRY				TRANSI YES	ATION NO
	AK	DE 2104232 A	09/1971	Germany						
	AL	DE 2311237 A	09/1974	Germany						
	AM	DE 2833582 A	02/1979	Germany				*		
	AN	EP 084 767 A	08/1983	EPO				-		
	АО	EP 096 189 A	12/1983	EPO						
		ОТНЕ	R PRIOR A	RT (Including	Author, Title, Date, Pertinent	Pages, Etc.	.)	,		
	AP	Britten and K	Cohne, "Rep	eated Sequ	ences in DNA," Scien	ice 161	(384)	1): 529-54	0, Aug	ust 9,
	Bursten et al., "Interleukin-1 Rapidly Stimulates Lysophosphatidate Acyltransferase and Phosphatidate Phosphohydrolase Activities in Human Mesangial Cells," <i>Journal of</i>									nd
,	AR	Biological Chemistry 266(31): 20732-20743, November 5, 1991. Bursten et al., "Lipid A activation of glomerular mesangial cells: mimicry of the bioactive lipid, phophatidic acid," American Journal of Physiology 262(2): C328-C338, February 1992.								
EXAMINE	ER	1776.	<u>.</u>		DATE CONSIDERE)				
* EXAMIN			•		onformance with MPEP 609. D		rough c	itation if not in	1	

Sheet 2 of 6

FORM PTO-144 (REV.7-80)	9		DEPARTMENT OF INT AND TRADEM		ATTY. DOCKET NO. 200144.405D1		APPL	ICATION NO.		
	_				APPLICANTS	•				
INF	ORM.	ATION DISCLOSUI (Use several sheets if nece		ENT	Robert E. Finney et a					
		(Ose several sheets if fiece	ssaiy)		FILING DATE	Ī	GROU	JP ART UNIT		
					October 13, 2003		· •	<u> </u>		
\$EV AND TED		————————————————————————————————————	U.S.	PATENT	DOCUMENTS					
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE		NAME	CLAS	S	SUBCLASS		DATE OPRIATE
ВА										
·			FOREI	GN PATEN	NT DOCUMENTS					
		DOCUMENT NUMBER	DATE		COUNTRY				TRANS YES	LATION NO
····	ВВ	JP 01-261307 A	06/1989	Japan					123	110
	ВС	JP 11-158073 A	06/1999	Japan						
	BD WO 91/11465 08/1981 WIPO									
	BE	BE WO 93/17002 09/1993 WIPO								
	BF	WO 00/43369	07/2000	WIPO						
	BG	WO 01/47897	07/2001	WIPO						
	вн	WO 96/04281	02/15/96	WIPO		·				
		OTHE	R PRIOR A	RT (Including	Author, Title, Date, Pertinent Pag	ges, Etc.)				
	Ві	Curd et al., J. Accession No		<i>160-162</i> , 1	1947. Database Crossf	ire Bei	lstei	in, Databas	se	
	ВЈ				1-563, 1948. Database	Cross	fire	Beilstein,	Datab	ase
	Accession No. 35104, 284744. Degussa, ZA 6707089, 1968. Chemical Abstracts 70:57905, 1969. And Database									
	Crossfire Beilstein, Database Accession No. 1158601.									
	BL Eberhardt et al., "Human Lysophosphatidic Acid Acyltransferase," Journal of Biological Chemistry 272(32): 20299-20305, August 8, 1997.									
	English, D., "Phosphatidic acid: A lipid messenger involved in intracellular and									
	extracellular signaling," Cell Signal 8(5): 341-347, 1996. Fong and Engleman, "Dendritic Cells in Cancer Immunotherapy," Annual Review of									
	Immunology 18: 245-273, 2000.									
	во	Freiberg et al.	, J. Prakt. C	Them. 327(1	3): 471-478, 1985. Che	emical	Abs	stracts 104	:68822	2.
EXAMINE	R				DATE CONSIDERED				-	
* EXAMINI					aformance with MPEP 609. Draw		igh cit	tation if not in		

EXPRESS MAIL NO. EV336618819US Sheet 3 of 6

U.S. PATENT AND TRADBMAKE PRICE 200144 (ASDI) APPLICATION NO. APPLICATION NO. 200144 (ASDI) APPLICANTS ROBERT E. Finney et al. FILING DATE October 13, 2003 CROUP ART UNIT Cotober CASS SUBCLASS FILING DATE COUNTRY TRANSLATION TRANS						···			Sneet _	<u>) 01 0</u>	
INFORMATION DISCLOSURE STATEMENT Color Co		9									
Robert E. Finney et al. FILNG DATE October 13, 2003 OCCUMENT INTEGRAL	(KEV./-80)		PATE	NI AND IKADEM	IAKK OFFICE						
U.S. PATENT DOCUMENTS U.S. PATENT DOCUMENTS U.S. PATENT DOCUMENTS U.S. PATENT DOCUMENTS CA											
U.S. PATENT DOCUMENTS SUBCLASS SUBCLASS FLING DATE NAME CLASS SUBCLASS FLING DATE	INF	ORM			ENT						
U.S. PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FILING DATE PATENT PROPRIATE			(Use several sheets if neces	ssary)			GRO	UP ART UNIT			
DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FILING DATE	<u> </u>					October 13, 2003					
FOREIGN PATENT DOCUMENTS TRANSLATION VES NO			٠	U.S.	PATENT	DOCUMENTS					
FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY TRANSLATION YES NO			DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS			
CB OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) CC Goi et al., Yuki Gosei Kagaku Kyokaishi 18: 332-336, 1960. Database Crossfire Beilstein, Database Accession No. 895595. CD Hoess and Abremski, "The Cre-lox Recombination System," Nucleic Acids and Molecular Biology 4: 99-109, 1990. CE Imamura et al, "Induction of in vitro tumor cell invasion of cellular monolayers by lysophosphatidic acid or phospholipase D," Biochemical and Biophysical Research Communications 193(2): 497-503, June 15, 1993. CF CF CF CO Kester, M., "Platelet-Activating Factor Stimulates Phosphatidic Acid Formation in Cultured Rat Mesangial Cells: Roles of Phospholipase D, Diglyceride Kinase, and De Novo Phospholipid Synthesis," Journal of Cellular Physiology 156: 317-325, 1993. CG Kim et al., Journal of the Korean Chemical Society 42(1): 118-121, 1998. Chemical Abstracts 128:282822. CH Kim et al., Journal of the Korean Chemical Society 43(4): 497-499, 1999. Chemical Abstracts 131:286468. CI CI CI Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature 256: 495-497, August 7, 1975. CI Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. DATE CONSIDERED		CA									
CB OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) CC Goi et al., Yuki Gosei Kagaku Kyokaishi 18: 332-336, 1960. Database Crossfire Beilstein, Database Accession No. 895595. CD Hoess and Abremski, "The Cre-lox Recombination System," Nucleic Acids and Molecular Biology 4: 99-109, 1990. Imamura et al, "Induction of in vitro tumor cell invasion of cellular monolayers by lysophosphatidic acid or phospholipase D," Biochemical and Biophysical Research Communications 193(2): 497-503, June 15, 1993. Kester, M., "Platelet-Activating Factor Stimulates Phosphatidic Acid Formation in Cultured Rat Mesangial Cells: Roles of Phospholipase D, Diglyceride Kinase, and De Novo Phospholipid Synthesis," Journal of Cellular Physiology 156: 317-325, 1993. Kim et al., Journal of the Korean Chemical Society 42(1): 118-121, 1998. Chemical Abstracts 128:282822. CH Kim et al., Journal of the Korean Chemical Society 43(4): 497-499, 1999. Chemical Abstracts 131:286468. CI Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature 256: 495-497, August 7, 1975. CJ Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kume and Shimizu, "CDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. DATE CONSIDERED	-			FOREI	GN PATE	NT DOCUMENTS					
CC Goi et al., Yuki Gosei Kagaku Kyokaishi 18: 332-336, 1960. Database Crossfire Beilstein, Database Accession No. 895595. CD Hoess and Abremski, "The Cre-lox Recombination System," Nucleic Acids and Molecular Biology 4: 99-109, 1990. CE Imamura et al, "Induction of in vitro tumor cell invasion of cellular monolayers by lysophosphatidic acid or phospholipase D," Biochemical and Biophysical Research Communications 193(2): 497-503, June 15, 1993. CF Kester, M., "Platelet-Activating Factor Stimulates Phosphatidic Acid Formation in Cultured Rat Mesangial Cells: Roles of Phospholipase D, Diglyceride Kinase, and De Novo Phospholipid Synthesis," Journal of Cellular Physiology 156: 317-325, 1993. CG Abstracts 128:282822. CH Kim et al., Journal of the Korean Chemical Society 42(1): 118-121, 1998. Chemical Abstracts 128:2828222. CH Kim et al., Journal of the Korean Chemical Society 43(4): 497-499, 1999. Chemical Abstracts 131:286468. CI Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature 256: 495-497, August 7, 1975. CK Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kume and Shimizu, "CDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. DATE CONSIDERED			DOCUMENT NUMBER	DATE	T	COUNTRY			TRANS	LATION	
CC Go et al., Yuki Gosei Kagaku Kyokaishi 18: 332-336, 1960. Database Crossfire Beilstein, Database Accession No. 895595. Hoess and Abremski, "The Cre-lox Recombination System," Nucleic Acids and Molecular Biology 4: 99-109, 1990. Imamura et al, "Induction of in vitro tumor cell invasion of cellular monolayers by lysophosphatidic acid or phospholipase D," Biochemical and Biophysical Research Communications 193(2): 497-503, June 15, 1993. Kester, M., "Platelet-Activating Factor Stimulates Phosphatidic Acid Formation in Cultured Rat Mesangial Cells: Roles of Phospholipase D, Diglyceride Kinase, and De Novo Phospholipid Synthesis," Journal of Cellular Physiology 156: 317-325, 1993. CG Kim et al., Journal of the Korean Chemical Society 42(1): 118-121, 1998. Chemical Abstracts 128:282822. CH Kim et al., Journal of the Korean Chemical Society 43(4): 497-499, 1999. Chemical Abstracts 131:286468. CI Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature 256: 495-497, August 7, 1975. CK Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kume and Shimizu, "CDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. DATE CONSIDERED * EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in			DOCUMENT NUMBER						YES	NO	
Goi et al., Yuki Gosei Kagaku Kyokaishi 18: 332-336, 1960. Database Crossfire Beilstein, Database Accession No. 895595. Hoess and Abremski, "The Cre-lox Recombination System," Nucleic Acids and Molecular Biology 4: 99-109, 1990. Imamura et al, "Induction of in vitro tumor cell invasion of cellular monolayers by lysophosphatidic acid or phospholipase D," Biochemical and Biophysical Research Communications 193(2): 497-503, June 15, 1993. Kester, M., "Platelet-Activating Factor Stimulates Phosphatidic Acid Formation in Cultured Rat Mesangial Cells: Roles of Phospholipase D, Diglyceride Kinase, and De Novo Phospholipid Synthesis," Journal of Cellular Physiology 156: 317-325, 1993. Kim et al., Journal of the Korean Chemical Society 42(1): 118-121, 1998. Chemical Abstracts 128:282822. Kim et al., Journal of the Korean Chemical Society 43(4): 497-499, 1999. Chemical Abstracts 131:286468. CI Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature 256: 495-497, August 7, 1975. CJ Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. DATE CONSIDERED * EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in		СВ									
Goi et al., Yuki Gosei Kagaku Kyokaishi 18: 332-336, 1960. Database Crossfire Beilstein, Database Accession No. 895595. Hoess and Abremski, "The Cre-lox Recombination System," Nucleic Acids and Molecular Biology 4: 99-109, 1990. Imamura et al, "Induction of in vitro tumor cell invasion of cellular monolayers by lysophosphatidic acid or phospholipase D," Biochemical and Biophysical Research Communications 193(2): 497-503, June 15, 1993. Kester, M., "Platelet-Activating Factor Stimulates Phosphatidic Acid Formation in Cultured Rat Mesangial Cells: Roles of Phospholipase D, Diglyceride Kinase, and De Novo Phospholipid Synthesis," Journal of Cellular Physiology 156: 317-325, 1993. Kim et al., Journal of the Korean Chemical Society 42(1): 118-121, 1998. Chemical Abstracts 128:282822. Kim et al., Journal of the Korean Chemical Society 43(4): 497-499, 1999. Chemical Abstracts 131:286468. CI Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature 256: 495-497, August 7, 1975. CJ Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. DATE CONSIDERED * EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in			ОТНЕ	R PRIOR A	RT (Including	, Author, Title, Date, Pertinent Pa	ges, Etc.)				
Database Accession No. 895595. Database Accession No. 895595. Hoess and Abremski, "The Cre-lox Recombination System," Nucleic Acids and Molecular Biology 4: 99-109, 1990. Imamura et al, "Induction of in vitro tumor cell invasion of cellular monolayers by lysophosphatidic acid or phospholipase D," Biochemical and Biophysical Research Communications 193(2): 497-503, June 15, 1993. Kester, M., "Platelet-Activating Factor Stimulates Phosphatidic Acid Formation in Cultured Rat Mesangial Cells: Roles of Phospholipase D, Diglyceride Kinase, and De Novo Phospholipid Synthesis," Journal of Cellular Physiology 156: 317-325, 1993. Kim et al., Journal of the Korean Chemical Society 42(1): 118-121, 1998. Chemical Abstracts 128:282822. Kim et al., Journal of the Korean Chemical Society 43(4): 497-499, 1999. Chemical Abstracts 131:286468. CI Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature 256: 495-497, August 7, 1975. CI Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98912. CK Kume and Shimizu, "CDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. DATE CONSIDERED		[Goi et al., Yuk	i Gosei Kas	gaku Kvok	aishi 18: 332-336, 196	0. Databa	se Crossfir	e Beils	tein,	
Hoess and Abremski, "The Cre-lox Recombination System," Nucleic Acids and Molecular Biology 4: 99-109, 1990. Imamura et al, "Induction of in vitro tumor cell invasion of cellular monolayers by lysophosphatidic acid or phospholipase D," Biochemical and Biophysical Research Communications 193(2): 497-503, June 15, 1993. Kester, M., "Platelet-Activating Factor Stimulates Phosphatidic Acid Formation in Cultured Rat Mesangial Cells: Roles of Phospholipase D, Diglyceride Kinase, and De Novo Phospholipid Synthesis," Journal of Cellular Physiology 156: 317-325, 1993. Kim et al., Journal of the Korean Chemical Society 42(1): 118-121, 1998. Chemical Abstracts 128:282822. CH Kim et al., Journal of the Korean Chemical Society 43(4): 497-499, 1999. Chemical Abstracts 131:286468. CI Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature 256: 495-497, August 7, 1975. CJ Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. DATE CONSIDERED		CC		•	-	,,,,,				,	
Biology 4: 99-109, 1990. Imamura et al, "Induction of in vitro tumor cell invasion of cellular monolayers by lysophosphatidic acid or phospholipase D," Biochemical and Biophysical Research Communications 193(2): 497-503, June 15, 1993. Kester, M., "Platelet-Activating Factor Stimulates Phosphatidic Acid Formation in Cultured Rat Mesangial Cells: Roles of Phospholipase D, Diglyceride Kinase, and De Novo Phospholipid Synthesis," Journal of Cellular Physiology 156: 317-325, 1993. Kim et al., Journal of the Korean Chemical Society 42(1): 118-121, 1998. Chemical Abstracts 128:282822. Kim et al., Journal of the Korean Chemical Society 43(4): 497-499, 1999. Chemical Abstracts 131:286468. Ci			Hoess and Abremski, "The Cre-lox Recombination System," Nucleic Acids and Molecular								
Lysophosphatidic acid or phospholipase D," Biochemical and Biophysical Research Communications 193(2): 497-503, June 15, 1993. Kester, M., "Platelet-Activating Factor Stimulates Phosphatidic Acid Formation in Cultured Rat Mesangial Cells: Roles of Phospholipase D, Diglyceride Kinase, and De Novo Phospholipid Synthesis," Journal of Cellular Physiology 156: 317-325, 1993. Kim et al., Journal of the Korean Chemical Society 42(1): 118-121, 1998. Chemical Abstracts 128:282822. CH		CD	l l			,	,				
lysophosphatidic acid or phospholipase D," Biochemical and Biophysical Research Communications 193(2): 497-503, June 15, 1993. Kester, M., "Platelet-Activating Factor Stimulates Phosphatidic Acid Formation in Cultured Rat Mesangial Cells: Roles of Phospholipase D, Diglyceride Kinase, and De Novo Phospholipid Synthesis," Journal of Cellular Physiology 156: 317-325, 1993. Kim et al., Journal of the Korean Chemical Society 42(1): 118-121, 1998. Chemical Abstracts 128:282822. CH Kim et al., Journal of the Korean Chemical Society 43(4): 497-499, 1999. Chemical Abstracts 131:286468. CI Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature 256: 495-497, August 7, 1975. CJ Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3- phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. DATE CONSIDERED * EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in			Imamura et al. "Induction of <i>in vitro</i> tumor cell invasion of cellular monolayers by								
Kester, M., "Platelet-Activating Factor Stimulates Phosphatidic Acid Formation in Cultured Rat Mesangial Cells: Roles of Phospholipase D, Diglyceride Kinase, and De Novo Phospholipid Synthesis," Journal of Cellular Physiology 156: 317-325, 1993. Kim et al., Journal of the Korean Chemical Society 42(1): 118-121, 1998. Chemical Abstracts 128:282822. CH		CE	lysophosphati	dic acid or	phospholip	oase D," Biochemical a	nd Biophy	sical Resea	arch		
Cultured Rat Mesangial Cells: Roles of Phospholipase D, Diglyceride Kinase, and De Novo Phospholipid Synthesis," Journal of Cellular Physiology 156: 317-325, 1993. Kim et al., Journal of the Korean Chemical Society 42(1): 118-121, 1998. Chemical Abstracts 128:282822. CH Kim et al., Journal of the Korean Chemical Society 43(4): 497-499, 1999. Chemical Abstracts 131:286468. CI Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature 256: 495-497, August 7, 1975. CJ Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in			Communication	ons 193(2):	497-503, 3	June 15, 1993.					
Cultured Rat Mesangial Cells: Roles of Phospholipase D, Diglyceride Kinase, and De Novo Phospholipid Synthesis," Journal of Cellular Physiology 156: 317-325, 1993. Kim et al., Journal of the Korean Chemical Society 42(1): 118-121, 1998. Chemical Abstracts 128:282822. CH Kim et al., Journal of the Korean Chemical Society 43(4): 497-499, 1999. Chemical Abstracts 131:286468. CI Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature 256: 495-497, August 7, 1975. CJ Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in		Kester, M., "Platelet-Activating Factor Stimulates Phosphatidic Acid Formation in									
Kim et al., Journal of the Korean Chemical Society 42(1): 118-121, 1998. Chemical Abstracts 128:282822. CH Kim et al., Journal of the Korean Chemical Society 43(4): 497-499, 1999. Chemical Abstracts 131:286468. CI Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature 256: 495-497, August 7, 1975. CJ Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in		Cr	l •	_		A •				3	
Abstracts 128:282822. CH Kim et al., Journal of the Korean Chemical Society 43(4): 497-499, 1999. Chemical Abstracts 131:286468. CI Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature 256: 495-497, August 7, 1975. CJ Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in											
Abstracts 128:282822. Kim et al., Journal of the Korean Chemical Society 43(4): 497-499, 1999. Chemical Abstracts 131:286468. CI Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature 256: 495-497, August 7, 1975. CJ Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in		CG			Korean C	hemical Society 42(1):	118-121,	1998. Che	mical		
Abstracts 131:286468. CI Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature 256: 495-497, August 7, 1975. CJ Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. EXAMINER DATE CONSIDERED * EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in											
Abstracts 131:286468. CI Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature 256: 495-497, August 7, 1975. CJ Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in		1 CH 1									
Specificity," Nature 256: 495-497, August 7, 1975. CJ Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in		Abstracts 131:286468.									
Specificity," Nature 236: 495-497, August 7, 1975. CJ Kotova-kilot et al., TR. Mosk KhimTekhnol. Inst. 61: 157-159, 1970. Chemical Abstracts 73:98911. CK Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. CL Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in											
T3:98911. Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321.		specificity," <i>Nature 256</i> : 495-497, August 7, 1975.									
Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in		TCLL 1									
phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. EXAMINER DATE CONSIDERED * EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in		С .									
phosphate Acyltransferase," Biochemical and Biophysical Research Communications 237(3): 663-666, August 28, 1997. Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. EXAMINER DATE CONSIDERED * EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in		CK									
Langalia et al., J. Indian Chem. Soc. 59(9): 1099-1101, 1977. Chemical Abstracts 98:89321. EXAMINER DATE CONSIDERED * EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in		phosphate Acyltransferase," Biochemical and Biophysical Research Communications									
EXAMINER DATE CONSIDERED * EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in											
* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in											
,	EXAMINE	R	<u></u>			DATE CONSIDERED					
,	4 1111		·								
	* EXAMIN			•			_	citation if not in	1		

INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) U.S. PATENT DOCUMENTS U.S. PATENT DOCUMENTS U.S. PATENT DOCUMENTS DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FILING DATE IP APPROPRIATE	FORM PTO-144 (REV.7-80)	19		DEPARTMENT OF		ATTY. DOCKET NO. 200144.405D1						
Robert E. Finney et al. FILING DATE GROUP ART UNIT October 13, 2003	•		•			200144.403D1						
Substant Color C	TNIE	ODM	ATION DISCLOSU		DNITE		1					
U.S. PATENT DOCUMENTS *EXAMINER DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FILING DATE IF APPROPRIATE DA FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY TRANSLATION VES NO	INF	OKW			EIN I			CDOUD A DT I DIIT				
*EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FILING DATE FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY TRANSLATION YES NO			(000 00 votal blicom il ficco	ssury)			1	GROUP ART UNIT				
FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY TRANSLATION YES NO						October 13, 2003				<u> </u>		
DOCUMENT NUMBER DATE COUNTRY TRANSLATION TYPES NO DB	+CV A A D IED	1		U.S.	PATENT	DOCUMENTS				Q D 4 772		
DOCUMENT NUMBER DATE COUNTRY TRANSLATION YES NO		DOCUMENT NUMBER DATE NAME CLASS SUBCLASS										
DOCUMENT NUMBER DATE COUNTRY TRANSLATION YES NO	DA								<u>.</u>			
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) DC				FOREI	GN PATE	NT DOCUMENTS				_		
DC Laurent et al., "Justus Liebigs Ann. Chem 60: 846, 1970. Database Crossfire Beilstein, Database Accession No. 33800. DD Leung et al., "Molecular Cloning of Two Alternatively Spliced Forms of Human Phosphatidic Acid Phosphatase cDNAs that Are Differentially Expressed in Normal and Tumor Cells," DNA and Cell Biology 17(4): 377-385, April 1998. Losman et al., "Baboon anti-idiotype antibodies mimic a carcinoembryonic antigen epitope," Int. J. Cancer 46(2): 310-314, August 15, 1990. DF Martin et al., "Increased concentrations of phosphatidate, diacylglycerol and ceramide in ras- and tyrosine kinase (fps)-transformed fibroblasts," Oncogene 14(13):1571-1580, April 3, 1997. DG Metha et al., J. Inst. Chem(India) 59(4): 183-185, 1987. Chemical Abstracts 109:6485. DH Miller and Rosman, "Improved Retroviral Vectors for Gene Transfer and Expression," BioTechniques 7(9): 980-EOA, October 1989. DI Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.			DOCUMENT NUMBER	DATE		COUNTRY						
Laurent et al., "Justus Liebigs Ann. Chem 60: 846, 1970. Database Crossfire Beilstein, Database Accession No. 33800. DD Leung et al., "Molecular Cloning of Two Alternatively Spliced Forms of Human Phosphatidic Acid Phosphatase cDNAs that Are Differentially Expressed in Normal and Tumor Cells," DNA and Cell Biology 17(4): 377-385, April 1998. Losman et al., "Baboon anti-idiotype antibodies mimic a carcinoembryonic antigen epitope," Int. J. Cancer 46(2): 310-314, August 15, 1990. Martin et al., "Increased concentrations of phosphatidate, diacylglycerol and ceramide in ras- and tyrosine kinase (fps)-transformed fibroblasts," Oncogene 14(13):1571-1580, April 3, 1997. DG Metha et al., J. Inst. Chem(India) 59(4): 183-185, 1987. Chemical Abstracts 109:6485. DH Miller and Rosman, "Improved Retroviral Vectors for Gene Transfer and Expression," BioTechniques 7(9): 980-EOA, October 1989. DI Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.		DB										
Laurent et al., "Justus Liebigs Ann. Chem 60: 846, 1970. Database Crossfire Beilstein, Database Accession No. 33800. DD Leung et al., "Molecular Cloning of Two Alternatively Spliced Forms of Human Phosphatidic Acid Phosphatase cDNAs that Are Differentially Expressed in Normal and Tumor Cells," DNA and Cell Biology 17(4): 377-385, April 1998. Losman et al., "Baboon anti-idiotype antibodies mimic a carcinoembryonic antigen epitope," Int. J. Cancer 46(2): 310-314, August 15, 1990. Martin et al., "Increased concentrations of phosphatidate, diacylglycerol and ceramide in ras- and tyrosine kinase (fps)-transformed fibroblasts," Oncogene 14(13):1571-1580, April 3, 1997. DG Metha et al., J. Inst. Chem(India) 59(4): 183-185, 1987. Chemical Abstracts 109:6485. DH Miller and Rosman, "Improved Retroviral Vectors for Gene Transfer and Expression," BioTechniques 7(9): 980-EOA, October 1989. DI Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.			OTHE	D DDIOD A	DT (to alordina	And Title Date Bertinand Be	Eta \		I	·		
Database Accession No. 33800. Leung et al., "Molecular Cloning of Two Alternatively Spliced Forms of Human Phosphatidic Acid Phosphatase cDNAs that Are Differentially Expressed in Normal and Tumor Cells," DNA and Cell Biology 17(4): 377-385, April 1998. Losman et al., "Baboon anti-idiotype antibodies mimic a carcinoembryonic antigen epitope," Int. J. Cancer 46(2): 310-314, August 15, 1990. Martin et al., "Increased concentrations of phosphatidate, diacylglycerol and ceramide in ras- and tyrosine kinase (fps)-transformed fibroblasts," Oncogene 14(13):1571-1580, April 3, 1997. Metha et al., J. Inst. Chem(India) 59(4): 183-185, 1987. Chemical Abstracts 109:6485. DH Miller and Rosman, "Improved Retroviral Vectors for Gene Transfer and Expression," BioTechniques 7(9): 980-EOA, October 1989. Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.		Τ						o Cronsfire P	ailstai			
Leung et al., "Molecular Cloning of Two Alternatively Spliced Forms of Human Phosphatidic Acid Phosphatase cDNAs that Are Differentially Expressed in Normal and Tumor Cells," DNA and Cell Biology 17(4): 377-385, April 1998. Losman et al., "Baboon anti-idiotype antibodies mimic a carcinoembryonic antigen epitope," Int. J. Cancer 46(2): 310-314, August 15, 1990. Martin et al., "Increased concentrations of phosphatidate, diacylglycerol and ceramide in ras- and tyrosine kinase (fps)-transformed fibroblasts," Oncogene 14(13):1571-1580, April 3, 1997. Metha et al., J. Inst. Chem(India) 59(4): 183-185, 1987. Chemical Abstracts 109:6485. Miller and Rosman, "Improved Retroviral Vectors for Gene Transfer and Expression," BioTechniques 7(9): 980-EOA, October 1989. Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.		DC		•	_	Chem 60. 840, 1970.	Databas	se Clossine D	CHSICI	11,		
Phosphatidic Acid Phosphatase cDNAs that Are Differentially Expressed in Normal and Tumor Cells," DNA and Cell Biology 17(4): 377-385, April 1998. Losman et al., "Baboon anti-idiotype antibodies mimic a carcinoembryonic antigen epitope," Int. J. Cancer 46(2): 310-314, August 15, 1990. Martin et al., "Increased concentrations of phosphatidate, diacylglycerol and ceramide in ras- and tyrosine kinase (fps)-transformed fibroblasts," Oncogene 14(13):1571-1580, April 3, 1997. Metha et al., J. Inst. Chem(India) 59(4): 183-185, 1987. Chemical Abstracts 109:6485. DH Miller and Rosman, "Improved Retroviral Vectors for Gene Transfer and Expression," BioTechniques 7(9): 980-EOA, October 1989. Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.												
Phosphatidic Acid Phosphatase cDNAs that Are Differentially Expressed in Normal and Tumor Cells," DNA and Cell Biology 17(4): 377-385, April 1998. Losman et al., "Baboon anti-idiotype antibodies mimic a carcinoembryonic antigen epitope," Int. J. Cancer 46(2): 310-314, August 15, 1990. Martin et al., "Increased concentrations of phosphatidate, diacylglycerol and ceramide in ras- and tyrosine kinase (fps)-transformed fibroblasts," Oncogene 14(13):1571-1580, April 3, 1997. Metha et al., J. Inst. Chem(India) 59(4): 183-185, 1987. Chemical Abstracts 109:6485. Miller and Rosman, "Improved Retroviral Vectors for Gene Transfer and Expression," BioTechniques 7(9): 980-EOA, October 1989. Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.		DD										
Losman et al., "Baboon anti-idiotype antibodies mimic a carcinoembryonic antigen epitope," Int. J. Cancer 46(2): 310-314, August 15, 1990. Martin et al., "Increased concentrations of phosphatidate, diacylglycerol and ceramide in ras- and tyrosine kinase (fps)-transformed fibroblasts," Oncogene 14(13):1571-1580, April 3, 1997. Metha et al., J. Inst. Chem(India) 59(4): 183-185, 1987. Chemical Abstracts 109:6485. Miller and Rosman, "Improved Retroviral Vectors for Gene Transfer and Expression," BioTechniques 7(9): 980-EOA, October 1989. Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.				_				•	rmal a	ind		
peritope," Int. J. Cancer 46(2): 310-314, August 15, 1990. Martin et al., "Increased concentrations of phosphatidate, diacylglycerol and ceramide in ras- and tyrosine kinase (fps)-transformed fibroblasts," Oncogene 14(13):1571-1580, April 3, 1997. Metha et al., J. Inst. Chem(India) 59(4): 183-185, 1987. Chemical Abstracts 109:6485. Miller and Rosman, "Improved Retroviral Vectors for Gene Transfer and Expression," BioTechniques 7(9): 980-EOA, October 1989. Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.												
ras- and tyrosine kinase (fps)-transformed fibroblasts," Oncogene 14(13):1571-1580, April 3, 1997. Metha et al., J. Inst. Chem(India) 59(4): 183-185, 1987. Chemical Abstracts 109:6485. Miller and Rosman, "Improved Retroviral Vectors for Gene Transfer and Expression," BioTechniques 7(9): 980-EOA, October 1989. Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.		DE										
ras- and tyrosine kinase (fps)-transformed fibroblasts," Oncogene 14(13):1571-1580, April 3, 1997. Metha et al., J. Inst. Chem(India) 59(4): 183-185, 1987. Chemical Abstracts 109:6485. Miller and Rosman, "Improved Retroviral Vectors for Gene Transfer and Expression," BioTechniques 7(9): 980-EOA, October 1989. Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.	·		36-4	(4T 1		C 1 1 4:1 4 1	. 1.1	1 1	1			
3, 1997. Metha et al., J. Inst. Chem(India) 59(4): 183-185, 1987. Chemical Abstracts 109:6485. Miller and Rosman, "Improved Retroviral Vectors for Gene Transfer and Expression," BioTechniques 7(9): 980-EOA, October 1989. Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.		DF										
Metha et al., J. Inst. Chem(India) 59(4): 183-185, 1987. Chemical Abstracts 109:6485. Miller and Rosman, "Improved Retroviral Vectors for Gene Transfer and Expression," BioTechniques 7(9): 980-EOA, October 1989. Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.				ine kinase (<i>ps)</i> -transi	officed fibroblasts, On	cogene	14(13):13/1-	1300,	Apm		
Miller and Rosman, "Improved Retroviral Vectors for Gene Transfer and Expression," BioTechniques 7(9): 980-EOA, October 1989. Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.		+		I Inst Chan	u(India) 50	0(A): 192 195 1097 C	hamiaal	1 Abstracts 10	0.648	5		
BioTechniques 7(9): 980-EOA, October 1989. Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.		DG	Wietila et al., .	i. insi. Chen	n(Illula) 39	7(4). 103-103, 1907. C	Heimca	i Austracts 10	19.0 4 0.	<i>J</i> .		
Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.		DII					e Trans	fer and Expre	ession,	,,		
Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.	·											
Journal of Biological Chemistry 270(22): 12949-12952, June 2, 1995. Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.			Moolengar W.H. "I vsonhosphotidia Asid a Multifunctional Dhospholinid Mossangar."									
Neicheva et al., Journal of Planar Chromatography-Modern TLC 12(2): 145-149, 1999.		DI	•									
Chemical Abstracts 131:28881.		DJ										
		-										
polymerase chain reaction," <i>Proc. Natl. Acad. Sci. USA 86</i> (10): 3833-3837, May 1989.		DK		Orlandi et al., "Cloning immunoglobulin variable domains for expression by the								
polymorase chain reaction, 170c. Trail. Teau. Bel. Con 100(10). 3033-3037, May 1709.			polymorase of	polymerase chain reaction, 170c. Ivan. Acad. Sci. OSA 60(10). 3633-3637, Iviay 1969.								
DL Rajnani et al., J. Inst. Chem. (India) 49(4): 222-224, 1977. Chemical Abstracts 88:37757.		DL	Rajnani et al.,	J. Inst. Che	em. (India)	49(4): 222-224, 1977.	Chemi	cal Abstracts	88:37	757.		
EXAMINER DATE CONSIDERED	EXAMIN	ER		· ,		DATE CONSIDERED				-		
* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).	* EXAMIN							ugh citation if not in	<u> </u>			

EXPRESS MAIL NO. EV336618819US Sheet 5 of 6

				200144.405D1 APPLICANTS						
INFO	ORM	ATION DISCLOSUR	E STATEME	NT	Robert E. Finney et	al.				
		(Use several sheets if nece	ssary)		FILING DATE		GRO	UP ART UNIT		
					October 13, 2003					
			U.S. I	PATENT	DOCUMENTS					
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE		NAME	CLA	SS	SUBCLASS		G DATE OPRIAT
	EA									
	<u> </u>		FOREIG	SN PATE	NT DOCUMENTS			<u> </u>	1	
, 		DOCUMENT NUMBER	DATE		COUNTRY				TRANS	LATIO
	EB							, , , , , , , , , , , , , , , , , , , 	TES	1 10
	1	.1	<u> </u>						L	<u> </u>
					Author, Title, Date, Pertinent P.				06.100	20.60
	EC	Rajnani et al.,	J. Inst. Cher	m.(india)	<i>48</i> (5): 254-255, 1976.	Cnem	ıcaı	Abstracts	80:189	1809.
	ED	Rao et al., J. I	Rao et al., J. Inst. Chem.(India) 54(5): 199-200, 1982.							
			Rizzo et al., "The Recruitment of Raf-1 to Membranes Is Mediated by Direct Interaction							
	EE							•		
*** * ********************************	EE	with Phosphat	idic Acid an	d Is Indep	pendent of Association			•		
		with Phosphat Chemistry 27.	tidic Acid an 5(31): 23911	d Is Inder -23918, A		with F	Ras,	' Journal o	of Biolo	ogica
_	EE	with Phosphat Chemistry 27. Sauer, B., "Inc	tidic Acid an 5(31): 23911 ducible Gene	d Is Inder -23918, A Targetin	pendent of Association August 4, 2000.	with Fre/lox	Ras,	' Journal o	of Biolo	ogica
		with Phosphat Chemistry 27. Sauer, B., "Inc Companion to Schreurs et al.	tidic Acid an 5(31): 23911 ducible Gene o Methods in , "Dendritic	d Is Indep -23918, A e Targetin Enzymolo	August 4, 2000. Ig in Mice Using the Copy 14(4): 381-392, Apart of Vaccines: From Mo	with Fre/lox Spril 199	Ras," Syste	"Journal of the com," Meth	of Biolo	ogica
	EF	with Phosphat Chemistry 27. Sauer, B., "Inc Companion to Schreurs et al.	tidic Acid an 5(31): 23911 ducible Gene o Methods in , "Dendritic	d Is Indep -23918, A e Targetin Enzymolo	Deendent of Association August 4, 2000. In g in Mice Using the Copy 14(4): 381-392, Apr	with Fre/lox Spril 199	Ras," Syste	"Journal of the com," Meth	of Biolo	ogica
	EF EG	with Phosphat Chemistry 27. Sauer, B., "Inc Companion to Schreurs et al. Immunotherap Sharp et al., "	tidic Acid and 5(31): 23911 ducible General Methods in , "Dendritic by," Critical Viral DNA in	d Is Indep -23918, A e Targetin Enzymolo Cell-Base Reviews	dendent of Association August 4, 2000. In g in Mice Using the Copy 14(4): 381-392, Appeted Vaccines: From Main Oncogenesis 11(1): Trimed Cells. I. A Study	re/lox soril 199 ouse M 1-17, 2	System System System System System System Section System Section System	em," Meth	of Biologods: A	ncer
	EF	with Phosphat Chemistry 27. Sauer, B., "Inc Companion to Schreurs et al. Immunotherap Sharp et al., " 2 DNA in a L.	tidic Acid and 5(31): 23911 ducible General Methods in ., "Dendritic by," Critical Viral DNA in tine of Transf	d Is Indep -23918, A Targetin Enzymolo Cell-Base Reviews a Transformed Ra	dendent of Association August 4, 2000. In g in Mice Using the Copy 14(4): 381-392, Appendix Oncogenesis 11(1): Timed Cells. I. A Study at Cells Using Specific	re/lox soril 199 ouse M 1-17, 2	System System System System System System Section System Section System	em," Meth	of Biologods: A	ncer
	EF EG	with Phosphat Chemistry 27. Sauer, B., "Inc Companion to Schreurs et al. Immunotherap Sharp et al., " 2 DNA in a L. Genome," J. A. Stamps et al.,	tidic Acid and 5(31): 23911 ducible General Methods in particular, "Dendritic by," Critical Viral DNA in the of Transf Mol. Biol. 860" A human cl	d Is Indep -23918, A e Targetin Enzymolo Cell-Base Reviews a n Transformed Ra (4): 709-7 DNA sequence	dendent of Association August 4, 2000. In Mice Using the Copy 14(4): 381-392, Appeted Vaccines: From Main Oncogenesis 11(1): The Cells I. A Study at Cells Using Specification (26, July 15, 1974. The Land Cells Using Specification (26, July 15, 1974. The Land Cells Using Specification (26, July 15, 1974.)	with Fre/lox Spril 199 ouse M 1-17, 2 y of the Fragm	Syste 98. Iodel 2000 e Sec	em," Methals to Clinicals to Clinicals of the Vincentian	of Biolo ods: A cal Car Adeno ral	ncer
-	EF EG	with Phosphat Chemistry 27. Sauer, B., "Inc Companion to Schreurs et al. Immunotherap Sharp et al., " 2 DNA in a L. Genome," J. M. Stamps et al., lysophosphati	tidic Acid and 5(31): 23911 ducible General Methods in particular, "Dendritic by," Critical Viral DNA in the of Transf Mol. Biol. 860" A human cl	d Is Indep -23918, A e Targetin Enzymolo Cell-Base Reviews a n Transformed Ra (4): 709-7 DNA sequence	dendent of Association August 4, 2000. In g in Mice Using the Copy 14(4): 381-392, Appeared Vaccines: From Main Oncogenesis 11(1): The Cells I. A Study at Cells Using Specific 1726, July 15, 1974.	with Fre/lox Spril 199 ouse M 1-17, 2 y of the Fragm	Syste 98. Iodel 2000 e Sec	em," Methals to Clinicals to Clinicals of the Vincentian	of Biolo ods: A cal Car Adeno ral	ncer
	EF EG EH	with Phosphat Chemistry 27. Sauer, B., "Inc Companion to Schreurs et al. Immunotherap Sharp et al., " 2 DNA in a L. Genome," J. M. Stamps et al., lysophosphati 1997. Sutton, W.D.,	tidic Acid and 5(31): 23911 ducible General Methods in white one of Methods in the country, "Critical Viral DNA in the of Transf Mol. Biol. 860 "A human clidic acid acyle" A crude nu	d Is Indep -23918, A e Targetin Enzymolo Cell-Base Reviews n Transformed Ra (4): 709-7 DNA sequentransferase aclease pre-	dendent of Association August 4, 2000. In Mice Using the Copy 14(4): 381-392, Appeted Vaccines: From Main Oncogenesis 11(1): The Cells I. A Study at Cells Using Specificate Cells Using Specificate Cells Using Specificate (126, July 15, 1974). The See, "Biochemical Jour Expanding Specification Suitable for the Cells Using Specification Specificatio	with Fre/lox Spril 199 ouse M 1-17, 2 y of the Fragm to non- mal 32	Ras, System Syst	em," Methals to Clinicals to Clinicals of the Vironmalian 5-461, Sepressocial	of Biolo ods: A cal Car Adenoral	ncer
	EF EG	with Phosphat Chemistry 27. Sauer, B., "Inc Companion to Schreurs et al. Immunotherap Sharp et al., " 2 DNA in a L. Genome," J. M. Stamps et al., lysophosphati 1997. Sutton, W.D.,	tidic Acid and 5(31): 23911 ducible General Methods in white one of Methods in the country, "Critical Viral DNA in the of Transf Mol. Biol. 860 "A human clidic acid acyle" A crude nu	d Is Indep -23918, A e Targetin Enzymolo Cell-Base Reviews n Transformed Ra (4): 709-7 DNA sequentransferase aclease pre-	dendent of Association August 4, 2000. In g in Mice Using the Copy 14(4): 381-392, Appeted Vaccines: From Main Oncogenesis 11(1): The Cells Using Specificate Cells Using Sp	with Fre/lox Spril 199 ouse M 1-17, 2 y of the Fragm to non- mal 32	Ras, System Syst	em," Methals to Clinicals to Clinicals of the Vironmalian 5-461, Sepressocial	of Biolo ods: A cal Car Adenoral	ncer
	EF EG EH	with Phosphat Chemistry 27. Sauer, B., "Inc Companion to Schreurs et al. Immunotherap Sharp et al., " 2 DNA in a L. Genome," J. M. Stamps et al., lysophosphati 1997. Sutton, W.D., experiments,"	tidic Acid and 5(31): 23911 ducible General Methods in many, "Dendritic by," Critical Viral DNA in the of Transfull Biol. 860 "A human clidic acid acylem" A crude nu Biochimica in the state of the sta	d Is Indep -23918, A Targetin Enzymolo Cell-Base Reviews Transformed Ra (4): 709-7 DNA sequentransferas aclease pre et Biophy	dendent of Association August 4, 2000. In Mice Using the Copy 14(4): 381-392, Appeted Vaccines: From Main Oncogenesis 11(1): The Cells I. A Study at Cells Using Specificate Cells Using Specificate Cells Using Specificate (126, July 15, 1974). The See, "Biochemical Jour Expanding Specification Suitable for the Cells Using Specification Specificatio	with Fre/lox Spril 199 ouse Market Fragment 199 to non-mal 32 use in English 199 is i	Ras, System System System System Section 198. Godel Coool Section 198. Manual System	em," Methals to Clinical softhe Vincental in Sequences of the Vinc	of Biolo ods: A cal Car Adenoral otember	ogica ncer oviru
	EF EG EH EI EJ	with Phosphat Chemistry 27. Sauer, B., "Inc Companion to Schreurs et al. Immunotherap Sharp et al., " 2 DNA in a L. Genome," J. M. Stamps et al., lysophosphati 1997. Sutton, W.D., experiments," Unishi et al., M.	tidic Acid and 5(31): 23911 ducible General Methods in white of Methods in the copy," Critical Wiral DNA in the of Transful Mol. Biol. 860 "A human clidic acid acyl" acrude nu Biochimica wippon Kaga	d Is Indep -23918, A Targetin Enzymolo Cell-Base Reviews Transformed Ra (4): 709-7 DNA sequentransferas aclease pre et Biophy	dendent of Association August 4, 2000. In Mice Using the Copy 14(4): 381-392, Appeted Vaccines: From Main Oncogenesis 11(1): The Cells Using Specificate Cells Using Specificate Cells Using Specificate, July 15, 1974. The Ses," Biochemical Journal Specificate Cells Using Specificate Cells Us	with Fre/lox Spril 199 ouse Market Fragment on non- enal 32 use in Enal 32 use in Enal 32 use in Enal 32	Ras, System System System Section 198. Secti	em," Methals to Clinical Is to Clini	of Biologods: A cal Car Adenoral cal cal cal car adenoral cal car adenoral cal cal cal cal cal cal cal cal cal c	ncer oviru

EXPRESS MAIL NO. EV336618819US Sheet <u>6</u> of 6

FORM PTO-144 (REV.7-80)	9		DEPARTMENT OF CO		ATTY. DOCKET NO. APPLICATION NO. 200144,405D1						
					APPLICANTS						
INF	ORM	ATION DISCLOSUE		NT	Robert E. Finney et a						
		(Use several sheets if nece	ssary)		October 13, 2003	GR	OUP ART UNIT				
			U.S. F	PATENT	DOCUMENTS						
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE			
	FA							<u> </u>			
	,		FOREIG	N PATE	NT DOCUMENTS						
		DOCUMENT NUMBER	DATE		COUNTRY			TRANSLATION YES NO			
	FB										
					g Author, Title, Date, Pertinent Pa						
	FC	Acyltransfera	se cDNAs Th	nat Enhan	n of Two Human Lyso ice Cytokine-Induced S 01, June 1997.			in Cells,"			
	FD	Wetmur and I 31(3): 349-37	Davidson, "K 0, February 1	inetics of 14, 1968.	Renaturation of DNA						
	FE.	Xu et al, "Lys Journal 309:			te ovarian and breast c 95.	ancer cel	ls," Bioche	mical			
	FF										
	FG										
	FH										
	FI										
	FJ										
	FK										
	FL										
EXAMINE	ER				DATE CONSIDERED			10000			
* EXAMIN					I onformance with MPEP 609. Dra with next communication to appl		h citation if not i	n			